

Ministry
of the
Environment

SABlock

Water Resources
Bulletin 3-14
Surface water series

Hon. Harry C. Parrott, D.D.S., Minister Graham W.S. Scott, Q.C., Deputy Minister

> SELECTED STREAMFLOW DATA FOR ONTARIO 1979

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WATER RESOURCES
BULLETIN 3-14
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SELECTED STREAMFLOW DATA FOR ONTARIO 1979

MINISTRY OF THE ENVIRONMENT

Water Resources Branch

**TORONTO** 

**ONTARIO** 

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Every possible effort is made to ensure the accuracy of the information contained in this publication. Verification of any suspect data may be obtained by contacting the Hydrology and Monitoring Section, Water Resources Branch, Toronto (965-6995).

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#### INTRODUCTION

This bulletin contains streamflow data collected during 1979 by personnel of the Ministry of the Environment.

The basic data were collected and compiled by the Water Resources Assessment Units of the Ministry's Regional Offices at London, Stoney Creek, Don Mills and Sudbury.

This publication was prepared by personnel of the Hydrology and Monitoring Section of the Water Resources Branch, Ministry of the Environment, Toronto.

Enquiries concerning the data in this bulletin should be made to the following:

Hydrology and Monitoring Section Water Resources Branch 135 St. Clair Avenue, West Toronto, Ontario M4V 1P5

Technical Support Section London Regional Office 985 Adelaide Street South London, Ontario N6E 1V3

Technical Support Section Hamilton Regional Office 140 Centennial Parkway North Stoney Creek, Ontario L8E 3H2 Technical Support Section Toronto Regional Office 150 Ferrand Drive (Suite 700) Don Mills, Ontario M3C 3C3

Technical Support Section Sudbury Regional Office 199 Larch Street Sudbury, Ontario P3E 5P9

#### Other Data Sources

Data collected by the Regional Offices on a daily basis throughout the year in Southern Ontario are not published in this bulletin. For convenience, these data are included in the Federal Government publication, "Surface Water Data - Ontario". That publication, which includes streamflow and water-level data for numerous rivers and lakes in the Province, is published annually by Water Survey of Canada. Enquiries should be made to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A OE7.

### DATA QUALITY

Many of the flows were determined by direct measurements; others are values calculated from a reading of water elevation and an empirically determined stage-discharge relationship. For stations where a stage-discharge relationship has been developed, the following terms are used to describe the quality of the records.

Excellent: Records obtained at a site where an

intensive discharge measurement program has

produced a well-defined and stable stage-discharge relationship.

Good: Records obtained from a site where an

intensive discharge measurement program has produced a well-defined stage-discharge relationship which is not completely stable due to minor shifting of the stream bed or other channel properties which control water

levels.

Fair: Records obtained from a site where scarcity

of discharge measurements has permitted only moderate definition of the stage-discharge

relationship.

Poor: Records obtained from a site where an

unstable control, poor discharge measurement

section or discharge measurements has

resulted in a poorly defined stage-discharge

relationship.

## **DEFINITION OF TERMS AND ABBREVIATIONS**

"Cubic metre per second" (m<sup>3</sup>/s)

is the unit expressing the rate of streamflow discharge used in

this bulletin.

"Cubic decametre" (dam3)

is the volume of water required to cover an area of 1000 square metres to a depth of one metre. It is equal to 1000 cubic metres.

"WPCP"

Water Pollution Control Plant.

"No Flow" (N.F.)

This notation indicates a field observation of either no streamflow, or a flow of less than 0.001 m<sup>3</sup>/s.

. . .

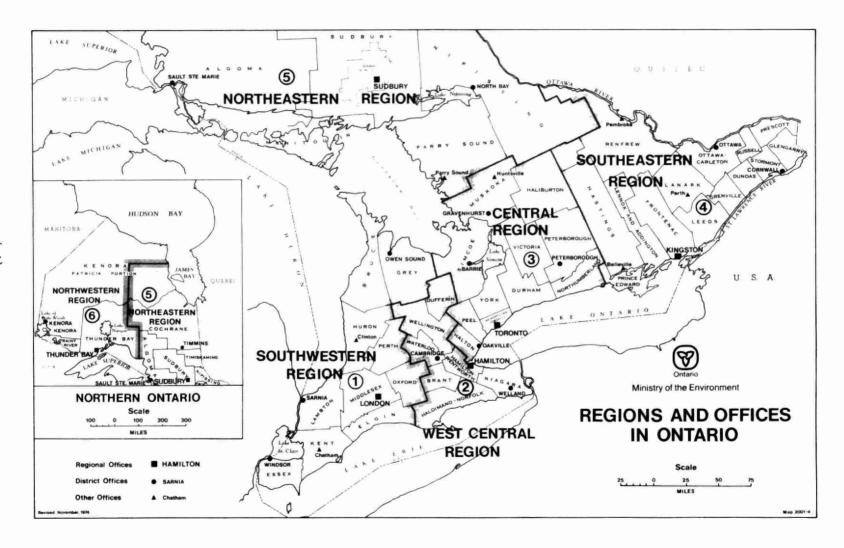
Less than

1 cubic metre equals 1000 litres

1 cubic metre per second equals 60,000 litres per minute.

1 cubic metre per second for one day equals 86.4 cubic decametres.

1 cubic metre per second equals 35.3144 cubic feet per second.



#### ALDER CREEK NEAR NEW DUNDEE

#### Station No. 02GA115

Location:

Adjacent to Waterloo County Road No. 7, Lot 7, Concession 2, Township of Wilmot, about 3.2 kilometres north of the Village of New Dundee

Gauge: On-stream recorder

Drainage Area: 3.6 Square kilometres

Period of Record: June 1979 to December 1979

Temporary on stream recorder and weir installed June 30th to September 13th 1979Remarks:

DAILY DISCHARGE IN CUBIC METRES PER SECOND

				:	1979	2 14 2			
Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Day
1				.082	.065	.059			1
2				.076	.073	.070			2
2 3 4 5				.072	.065	.061			2 3 4 5
4				.071	.064	.059			4
5				.070	.063	.059			5
6 7				.070	.063	.059			6
7				.069	.064	.058			7 8
8				.069	.069	.058			8
9				.069	.062	.058			9
10				.071	.064	.061			10
11				.070	.063	.061			11
12				.069	.062	.059			12
13				.068	.061	.059			13
14				.068	.061				14
15				.067	.060				15
16				.067	.060				16
17				.066	.060				17
18				.066	.062				18
19				.066	.062				19
20				.066	.060				20
21				.065	.059				21
22				.065	.059				22
23				.065	.062				23
24				.066	.082				24
25				.065	.063				25
26				.066	.061				26
27				.065	.061				27
28				.065	.059				28
29				.064	.061				29
30			.088	.064	.060				30
31				.065	.059				31

#### AUSABLE RIVER BELOW EXETER

## Station No. 02FF103

Location:

At the bridge on Hwy. 83 about 1.3 kilometres west of the junction with Hwy. 4 in the Town of

Exeter

Gauge:

None

Drainage Area:

109 Square kilometres

Period of Record:

June 1975 to December 1979

				1979				
Jan. t	o March	April	to June		to :	Sept.	Oct. to	o Dec.
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date		m <sup>3</sup> /s	Date	m <sup>3</sup> /s
		May 24	.280	Aug	9	.085	Oct 9	.054
		Jun 6	.286	Aug	27	.025		
				Sep	5	.065		
				Sep	13	.014		
				Sep	28	.023		

### AUSABLE RIVER TRIBUTARY NEAR HENSALL Station No. 02FF105

Location:

At the bridge on Hwy. 4, about 1.8 kilometres south of the Village of Hensall

Gauge:

None

Drainage Area:

15.8 Square kilometres

Period of Record:

June 1975 to December 1979

	_			1979					
Jan. to March April to June July to Sept. Oct.									
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s		
		May 9	.122	Jul 31	.031	Oct 9	.040		
		May 24	.074	Aug 27	.014	Oct 19	.037		
						Nov 21	.076		
						Nov 27	1.00		
						Nov 29	.558		
						Dec 6	.388		

#### AUSABLE RIVER NEAR EXETER

## Station No. 02FF109

Location:

At the bridge at Concession 4, Lot 29, Township of Usborne, about 6.4 kilometres northeast of the Town of Exeter

Gauge:

Measuring point

Drainage Area:

69.7 Square kilometres

Period of Record:

May 1978 to December 1979

1979										
Jan. to	o March	April t	o June	July to	Sept.	Oct. to	Dec.			
Date m <sup>3</sup> /s		Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s			
		May 24	.142	Aug 9	.045	Oct 9	.153			
		Jun 6	.119	Aug 27	.014					
		Jun 13	.068	Sep 13	.004					
		Jun 27	.008	Sep 28	.014					

#### BAXTER CREEK NEAR MILLBROOK

#### Station No. 02HJ104

Location:

Upstream of the Township road bridge at Lot 10, Concession 4, Township of Cavan, about 1.6 kilometres southeast of the Town of Millbrook

Gauge: On-stream recorder

Drainage Area: 30.6 Square kilometres

Period of Record: October 1977 to December 1979

Records good. On-stream recorder installed April 1st, 1978 Remarks:

## DAILY DISCHARGE IN CUBIC METRES PER SECOND

							1979						
Day	Jan .	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Day
1				. 628	. 509	. 427	.439	. 410		.416	. 404	. 404	1
2				1.50	.496	. 423	. 404	.779		.452	.429	.396	2
2 3 4 5 6				. 85 1	.698	.411	. 392	.437		.466	.414	. 388	3
4				. 642	. 595	.403	.383	. 416		.489	.411	.402	4
5			196146-161	.818	. 524	.406	. 380	.415		.721	.413	.433	4 5 6
6			. 909	. 751	. 610	.399	.381	.418		. 605	.419	.448	6
7 8			. 769	. 605	. 541	. 396	. 377	. 448		. 528	478	.482	7,
8			. 706	. 563	.498	.400	. 379	. 424		.445	. 428	.451	8
9			. 951	.559	.479	. 397	. 379	.417		. 668	.479	. 401	9
10			1.20	.618	.469	.402	. 385	. 685		.446	. 704	.418	10
11			. 706	. 638	.457	. 500	. 392	.437		.458	. 439	.501	11
12			. 511	. 581	.477	.405	.390	.421		.576	. 414	. 507	12
13				.661	.617	. 390	. 388	.413		. 504	405	.413	13
14				1.36	.478	.385	.382	.412	.782	. 436	.400	. 394	14
15				.753	.523	. 386	. 388	.411	. 431	. 435	.418	. 399	15
16				. 645	.492	. 384	. 389	.401	.387	.431	.406	.407	16
17				. 597	.460	. 381	. 392	. 395	.379	.440	. 400	.485	17
18				.565	.454	.384	.391	. 426	.376	.433	.394	.397	18
19				. 543	. 587	. 380	.389	.421	. 377	. 445	. 386	.540	19
20				. 522	. 529	.373	.389	.404	.379	. 535	.398	.735	20
21				. 51 9	.512	.376	. 389	. 394	. 383	. 497	. 394	.749	21
22				. 530	.459	. 609	.395	.400	.379	.434	.571	.745	22
23				. 502	.449	. 471	. 394	.456	. 377	. 453	.521	.818	23
24				. 500	.440	.412	.395	.590	.389	.433	.458	1.11	24
25				. 492	.523	. 390	.402	.437	. 388	.419	419	1.21	25
26			. 789	. 604	.618	.383	. 421	. 424	. 385	.412	.878	.563	26
27			. 604	1.02	.508	. 385	. 407	. 513	.402	.412	. 484	. 487	27
28			. 566	. 595	.478	.384	. 421		.415	.461	. 523	.465	28
29			.716	. 547	.451	. 381	.416		.412	. 425	. 434	.469	29
30			.779	. 522	.486	.409	.400		.408	.410	.417	.460	30
31			.972		.473	54.525	.413			.435		.434	31

# BEAVER CREEK NEAR PORT STANLEY

#### Station No. 02GC114

Location:

At the first township road bridge about 0.6 kilometres upstream of the confluence with Kettle Creek, about 6.4 kilometres north of the Village of Port Stanley

Gauge:

None

Drainage Area:

22.8 Square kilometres

Period of Record:

May 1977 to December 1979.

1979										
Jan. t	o March	April t	o June	July to	Sept.	Oct. to	Dec.			
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s			
		May 14	.255	Jul 3	.173	Oct 1	.108			
		May 12	.158	Aug 8	.093	Oct 5	.147			
		Jun 1	.224	Aug 29	.303	Oct 16	.125			
		Jun 26	.119	Sep 25	.065	Oct 22	.142			

# BERNARD CREEK NEAR SUNDRIDGE

#### Station No. 02EA101

Location:

At the first Concession Road downstream of Lake

Bernard outlet, about 8.0 kilometres south of the Village of Sundridge

Gauge:

Staff

Drainage Area:

109 Square kilometres

Period of Record:

May 1979 to December 1979

1979									
Jan. t	o March	April t	o June	July to Sept.		Oct. to Dec.			
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s		
		May 18	3.95	Aug 17	.210	Oct 17	2.08		
		Jun 15	.176						

#### BLACK CREEK BELOW ACTON

#### Station No. 02HB106

Location:

At the bridge on Concession 4, Township of Esquesing, about 2.4 kilometres southeast of the Town of Acton

On-stream recorder Gauge:

Drainage Area: 25.9 Square kilometres

Period of Record: April 1966 to December 1979

On-stream recorder installed March 18th, 1978 Discharge affected by regulation Remarks:

#### DAILY DISCHARGE IN CUBIC METRES PER SECOND

							1979						
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Day
1 2 3 4 5				.753 .724 .815 .658 .644	.407 .391 .445 .500	.552 .411 .348 .318 .358	.295 .271 .247 .228 .211	.223 .397 .277 .231 .214		.204 .205 .195 .261 .235	.245 .315 .279 .258 .248	. 261 . 284 . 299 . 299 . 313	1 2 3 4 5
6 7 8 9			.519	. 666 . 583 . 595 . 576 . 511	.422 .423 .374 .315 .184	. 313 . 282 . 356 . 378 . 447	.196 .188 .233 .239 .217	.195 .190 .188 .175 .193	.150 .200 .181 .175 .188	.204 .239 .204 .305 .212	.251 .297 .262 .290 .407	. 331 . 341 . 357 . 345 . 388	6 7 8 9
11 12 13 14 15			.473 .405 .423 1.04 .964	.540 .552 .790 2.51 1.91	.181 .266 .558 .549	.459 .301 .199 .191 .230	.218 .226 .227 .198 .191	.173 .161 .164 .160 .155	.188 .184 .185 .817 .794	.206 .232 .220 .202 .201	.335 .304 .280 .264 .245	.640 .654 .444 .239 .227	11 12 13 14 15
16 17 18 19 20			.934 .676 .741 .825 .815	1.07 .718 .577 .491 .437	1.07 .887 .543 .371 .225	.218 .183 .179 .182 .173	.188 .178 .171 .172 .176	.151 .153 .163 .184 .293	.472 .344 .292 .194 .179	.197 .207 .204 .205 .223	.234 .231 .235 .244 .246	.230	16 17 18 19 20
21 22 23 24 25			.826 .850 .837 1.02 1.17	.400 .378 .360 .339 .329	.219 .212 .236 .244 .529	.213 .348 .171 .163 .162	.179 .176 .174 .170	.158 .146 .163	.182 .179 .177 .186 .443	.205 .203 .209 .203 .195	.237 .285 .355 .557		21 22 23 24 25
26 27 28 29 30 31			. 902 . 630 . 513 . 517 . 783 . 930	.383 .641 .550 .459	1.09 .869 .731 .726 .929 .763	.158 .168 .179 .164 .243	.179 .170 .183 .186 .173 .267		.579 .225 .211 .232 .218	.193 .195 .220 .208 .202 .206	.721 .586 .731 .755 .493		26 27 28 29 30 31

# BLACK CREEK NEAR OIL SPRINGS

#### Station No. 02GG101

Location:

At the bridge on Enniskillen Township Road 12, about 1.8 kilometres west of the Village of Oil

Springs

Gauge:

None

Drainage Area:

82.9 Square kilometres

Period of Record:

June 1975 to December 1979

	1979										
Jan. t	o March	April 1	to June	Jul	y to	Sept.	0ct	t. to	Dec.		
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Dat	e	m <sup>3</sup> /s	Dat	e	m <sup>3</sup> /s		
				Aug	8	.014	0ct	9	.004		
							Nov	2	.003		
							Nov	29	.728		

# BLUE JAY CREEK AT HIGHWAY NO. 542 Station No. 02CG101

Location:

The culvert on Hwy. No. 542, opposite the junction of Hwy. No. 542 and Hwy. No. 542A, about 5.4 kilometres east of the Community of

Tehkummah

Gauge:

Staff

Drainage Area:

14.0 Square kilometres

Period of Record:

April 1979 to December 1979

			:	1979				
Jan. t	o March	April t	o June	July to	Sept.	Oct. to	to Dec.	
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	
		Apr 20	1.669	Aug 3	.626			
		May 11	.555	Aug 10	.487			
		May 28	.374					
		Jun 7	.442					
		Jun 26	.371					

#### BLYTH BROOK NEAR BLYTH

#### Station No. 02FE105

Location:

At the bridge on the Side Road 39-40, Township of East Wawanosh, about 2.4 kilometres northwest of the Village of Blyth

Gauge:

Staff

Drainage Area:

50.5 Square kilometres

Period of Record:

July 1975 to December 1979

Remarks:

Records fair

					1979			
Jan. t	o March	April to June		July to	Sept.	Oct. to Dec.		
Date m <sup>3</sup> /s	m <sup>3</sup> /s	Date m <sup>3</sup> /s		m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s
	May	9	.623	Jul 4	.074			
		May	31	.368	Jul 18	.071		
		Jun	6	.178	Jul 31	.054		
		Jun	13	.136	Aug 23	.034		
					Sep 5	.031		
					Sep 12	.040		
					Sep 19	.040		
					Sep 28	.031		

## BUTLER CREEK BELOW BRIGHTON

#### Station No. 02HD100

Location:

At the wooden bridge on Harbour Street about 1.6 kilometres south of the Village of Brighton

Gauge:

Staff

Drainage Area:

30.3 Square kilometres

Period of Record:

June 1966 to December 1975

May 1977 to December 1979

Remarks:

Records fair

1979										
Jan. to March April to June July to Sept. Oct. to										
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m³/s	Date	m³/s			
		May 9	.334	Aug 16	.082					
		Jun 12	.142	Sep 24	.088					
		Jun 25	.085							

## CATFISH CREEK AT GLENCOLIN

#### Station No. 02GC112

Location:

At the bridge on Elgin County Road 30 in the Community of Glencolin

Gauge:

None

Drainage Area:

85.5 Square kilometres

Period of Record:

July 1976 to December 1979

				1979			
Jan. to March April to June July to Sept. Oct. t							
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s
		May 4	.832	Jul 3	.192	Oct 1	.074
		May 14	.719	Aug 8	.040	Oct 5	.139
		Jun 1	.493	Aug 29	.541	Oct 16	.433
		Jun 12	.204	Sep 24	.091	Oct 22	.428
		Jun 26	.116				

# CATFISH CREEK NEAR ORWELL Station No. 02GC110

Location:

At the bridge on Hwy. 3, about 0.8 kilometres east of the Community of Orwell

Gauge:

None

Drainage Area:

135 Square kilometres

Period of Record:

May 1975 to December 1979

1979										
Jan. to March April to June July to Sept. Oct.										
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s			
		Jun 1	. 793	Jul 3	.357	Oct 1	.170			
		Jun 12	.396	Aug 8	.102	Oct 5	.269			
		Jun 26	.192	Sep 24	.181	Oct 16	.739			
						Oct 22	.697			

#### COBOURG BROOK AT COBOURG

# Station No. 02HD103

Location:

At the bridge adjacent to the WPCP in the Town

of Cobourg

Gauge:

Wire weight

Drainage Area:

126 Square kilometres

Period of Record:

July 1966 to December 1979

Remarks:

Records good

1979									
Jan. to March April to June July to Sept. Oct. to									
Date	m³/s	Date	m³/s	Date	m³/s	Date	m <sup>3</sup> /s		
		May 9	1.52	Jul 26	1.87				
		Jun 13	.832	Aug 15	.699				
				Sep 24	.696				

# COLBORNE CREEK AT LAKEPORT

#### Station No. 02HD102

Location:

At the bridge in the Hamlet of Lakeport on the road leading to the Village of Colborne

Gauge:

Staff

Drainage Area:

44.0 Square kilometres

Period of Record:

July 1966 to December 1979

Remarks:

Records good

1979									
Jan. t	o March	April to June		July to	Sept.	Oct. to Dec.			
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s		
		May 9	.552	Aug 16	.170				
		Jun 12	.277	Sep 24	.226				
		Jun 25	.368						

#### CONISTON CREEK BELOW CONISTON

#### Station No. 02DB102

Location:

At the confluence with the Wanapitei River southeast of the Community of Coniston

Gauge:

On-stream recorder

Drainage Area:

90.9 Square kilometres

Period of Record:

September 1979 to December 1979

Remarks:

On-stream recorder installed September 19th 1979

DAILY DISCHARGE IN CUBIC METRES PER SECOND

				•	1979				
Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Day
1 2 3 4 5						.348	2.20	1.16	1
2						.342	2.42	1.02	2
3						.436	1.75	.966	3
4						.523	1.40	.902	4 5
5						.522	1.17	.814	5
6 7 8						.579	1.48	.878	6
7						.866	1.76	.852	7
8						.810	1.68	.678	8
9						.762	1.56	.651	9
10						.713	1.50	.736	10
11						.729	1.32	.850	1
12						.904	1.15	.708	12
13						.918	1.10	.623	13
14						.825	1.09	.566	14
15				.ec		.744	1.17	.538	15
16						.700	1.10	.510	16
17						.677	1.34	.481	17
18						.648	1.41	.453	18
19						.990	1.33	.453	19
20					.639	1.19	2.40	.425	20
21					.673	1.23	2.17	.420	21
22					.590	1.14	2.99	.755	22
23					.561	1.07	4.83	3.35	23
24					.536	1,38	6.74	4.61	24
25					.511	1.22	4.24	3.21	25
26					.492	.990	4.81	2.85	26
27					.427	.893	5.95	2.51	27
28					.412	1.04	3.70	2.18	28
29					.379	1.38	2.38	1.69	29
30					.370	1.72	1.64	1.26	30
31						1.76		1.02	31
									-

#### CREDIT RIVER BELOW THE ORANGEVILLE DAM

#### Station No. 02HB112

About 200 metres downstream from the outlet of Location:

the Orangeville dam at the eastern limits of the Town of Orangeville

Gauge:

Staff

Drainage Area:

18.1 Square kilometres

Period of Record:

May 1978 to December 1979

### DAILY DISCHARGE IN CUBIC METRES PER SECOND

	1979											
Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Day			
1 2 3 4 5				.154	.150		3 = 2 3 = 2		1 2 3 4 5			
2				.156					2			
3				.151					3			
4				.154			.116		4			
5				.154					5			
6 7 8 9				.148					6 7 8			
7				.154		.116			7			
8				.158					8			
9				.162					9			
10				.167					10			
11				.170					11			
12				.177					12			
13				.186		.130			13			
14				.196					14			
15				.203					15			
16				.206					16			
17				.207	.142				17			
18				.202					18			
19				.192					19			
20				.188			91		20			
21				.187		.136			21			
22				.189					22			
23				.189					23			
24				.189	.144				24			
25				.193					25			
26				.187					26			
27				.178					27			
28						.113			28			
29			.146		.105				29			
30			.160						30			
31									31			

#### DODD CREEK NEAR TALBOTVILLE ROYAL

#### Station No. 02GC109

Location:

At the bridge on the side road leading west off Hwy. 4, about 2.4 kilometres northwest of the Hamlet of Talbotville Royal

Gauge:

Staff

Drainage Area:

22.8 Square kilometres

Period of Record:

May 1972 to December 1974

June 1978 to December 1979

Remarks:

Records fair

1979									
Jan. to March April to June July to Sept. Oct. to Do									
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s		
		May 4	.184	Jul 3	.082	Oct 1	.045		
		May 14	.028	Aug 8	.042	Oct 5	.068		
		Jun 12	.074	Aug 29	.068	Oct 16	.085		
		Jun 26	.057	Sep 25	.059	Oct 22	.025		

# GAGE CREEK AT PORT HOPE Station No. 02HD104

Location:

At the bridge on Hyw. 2 about 1.6 kilometres east of the Town of Port Hope

Gauge:

Staff

Drainage Area:

43.2 Square kilometres

Period of Record:

August 1966 to December 1979

Remarks:

Records good

1979									
Jan. to March April to June July to Sept. Oct. to									
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s		
		May 9	.405	Jul 26	.170				
		Jun 13	.130	Aug 15	.071				
				Sep 25	.091				

# GRAHAM CREEK AT NEWCASTLE Station No. 02HD105

Location:

At the concrete bridge on Mill Street about 0.8 kilometres south of Hwy. 401 in the Village of

Newcastle

Gauge:

Staff

Drainage Area:

86.2 Square kilometres

Period of Record:

November 1965 to December 1979

Remarks:

Records good

1979									
Jan. to March April to June July to Sept. Oct. to Dec									
Date	m³/s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s		
		May 2	.861	Jul 25	.079				
		Jun 13	.405	Aug 16	.139				
				Sep 25	.158				

# KETTLE CREEK NEAR PORT STANLEY Station No. 02GC111

Location:

At the road bridge 2.4 kilometres north of the Village of Port Stanley

Gauge:

None

Drainage Area:

391 Square kilometres

Period of Record: .

July 1975 to December 1979

	1979										
Jan. t	o March	April t	o June	July	/ to	Sept.	Oct. to Dec		Dec.		
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date		m <sup>3</sup> /s	Date		m <sup>3</sup> /s		
		Jun 26	.671	Jul	3	.773	0ct	1	.665		
				Aug	8	.351	0ct	5	.765		
				Aug 2	29	.677	0ct	16	.974		
				Sep	7	.416	0ct	22	.595		

#### LOVERS CREEK NEAR BARRIE

#### Station No. 02EC115

Location:

At the culvert on Tollendale Road in the

Community of Minet Point

Gauge:

Measuring Point

Drainage Area:

61.1 Square kilometres

Period of Record:

May 1968 to December 1979

Remarks:

Data prior to 1976 appear under the name "Painswick Creek" in the Summer Gauging Site Data section of previous bulletins in this

series

	1979							
Jan. t	March	April to June		July to Sept.		Oct. to Dec.		
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	
Mar 28	1.21	Apr 19	.773	Jul 24	.096			
		May 16	1.18					
		Jun 19	.130			1		

# LUCKNOW RIVER AT PORT ALBERT Station No. 02FD107

Location:

At the fish ladder beside the bridge in the Hamlet of Port Albert  $\,$ 

Gauge:

Staff

Drainage Area:

232 Square kilometres

Period of Record:

June 1979 to December 1979

				1979			
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date m <sup>3</sup> /s	Date	m³/s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	
		Jun 14	1.05	Jul 4	1.31	Nov 1	1.68
		Jun 27	.609	Jul 18	.646	Nov 21	1.71
				Aug 16	.580		
				Aug 23	.691		
				Aug 27	.447		
				Sep 12	.501		
				Sep 19	.442		
				Sep 27	.416		

# LUCKNOW RIVER NEAR LUCKNOW

## Station No. 02FD102

Location:

At the bridge on Huron County Road 27 about 2.4 kilometres below the Hamlet of Lucknow

Gauge:

Measuring Point

Drainage Area:

126 Square kilometres

Period of Record:

January 1969 to December 1979

Remarks:

Records good

1979						
Jan. to March	April	to June	July to	Sept.	Oct. t	o Dec.
Date m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s
	May 8	2.82	Jul 4	.850		
	May 23	1.42	Jul 18	.385		
	May 30	1.65	Jul 31	.275		
	Jun 6	.818	Aug 16	.255		
	Jun 13	.784	Aug 22	.501		
	Jun 27	.331	Sep 18	.280		
			Sep 27	.201		

## MEATBIRD CREEK AT HWY NO. 17

#### Station No. 02CF108

Location:

At the culvert on Hwy. No. 17 about 1.4 kilometres west of the junction of Hwy. No. 17 and Hwy. No. 536  $\,$ 

Gauge:

Staff

Drainage Area:

33.9 Square kilometres

Period of Record:

September 1979 to December 1979

	1979							
Jan. t	o March	April 1	to June	July to Sept.		Oct. to Dec.		
Date	m³/s	Date	m <sup>3</sup> /s	Date	m³/s	Date	m <sup>3</sup> /s	
				Sep 7	.190	Oct 11	.071	
				Sep 21	.136	Oct 26	.229	
				Sep 28	.062	Nov 23	.691	

# MIDDLE MAITLAND RIVER AT BRUSSELS Station No. 02FE103

Location:

At the bridge on Huron County Road 12 in the Village of Brussels

Gauge:

None

Drainage Area:

570 Square kilometres

Period of Record:

	1979											
Jan. t	o March	April t		to June	July to Sept.		Oct. to Dec.					
Date	m <sup>3</sup> /s	Dat	e	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s				
		Jun	6	1.14	Jul 31	.076						
					Aug 23	.020						
					Sep 12	.014						
					Sep 19	.014						

### MONK'S POND OUTFLOW NEAR ORANGEVILLE

Station No. 02HB113

Location:

Credit River tributary at Hwy. 9 about one kilometre west of the Town of Orangeville

Gauge:

On-stream recorder

Drainage Area:

2.5 Square kilometres

Period of Record:

June 1979 to December 1979

Remarks:

Temporary on-stream recorder and weir installed June 28th to October 3rd, 1979

1979											
Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Day		
1				.0026	.0009	.0007	.0005		1		
2				.0014	.0008	.0009	.0010		2		
3				.0009	.0009	.0010	.0007		2 3 4		
<b>4</b> 5				.0011	.0007	.0009			4		
5				.0018	.0012	.0009			5		
6				and a	.0016				6 7		
7				.0022	.0017				/		
6 7 8 9				.0020	.0010	.0007			8		
				.0015		.0006			10		
10				.0020		.0008			10		
11				.0023		.0008			11		
12				.0022		.0007			12		
13				.0019		.0006			13		
14				.0014		.0010			14		
15				.0007		.0006			15		
16				.0004		.0005			16		
17				.0004		.0004	**		17		
18				.0005	.0011	.0004			18		
19					.0010	.0004			19		
20					.0009	.0004			20		
21					.0009	.0004			21		
22					.0008	.0004			22		
23					.0009	.0005			23		
24					.0020	.0005			24		
25				- 1	.0014	.0004			25		
26					.0009	.0004			26		
27					.0008	.0004			27		
28			.0046	.0013		.0004			28		
29			.0034	.0011	In the same	.0004			29		
30			.0049	.0010	.0007	.0005			30		
31				.0012	.0007				31		

# MOOSE CREEK AT LEVACK

Station No. 02CF102

Location:

About 61 metres upstream from the confluence

with the Onaping River in the Community of

Levack

Gauge:

Measuring Point

Drainage Area:

40.9 Square kilometres

Period of Record:

September 1969 to December 1973

May 1979 to December 1979

1979									
Jan. to	March	April t	o June	July to	Sept.	Oct. to	Dec.		
Date	m <sup>3</sup> /s	Date m <sup>3</sup> /s		Date m <sup>3</sup> /s		Date	m <sup>3</sup> /s		
		May 14	1.08	Jul 16	.139	Oct 1	.057		
		May 24	.725	Aug 1	.552				
		May 30	.541	Aug 10	.345				
		Jun 4	.326	Aug 20	.215				
		Jun 11	.589						
		Jun 18	.348						
		Jun 27	.303						

#### MOUNT ALBERT CREEK NEAR MOUNT ALBERT

### Station No. 02EC104

Location:

At the bridge on Queensville side road about 4.0 kilometres north of the Community of Mount

Albert.

Gauge:

On-stream recorder

Drainage Area:

63.0 Square kilometres

Period of Record:

July 1970 to December 1979

Remarks:

Records fair to December 1978, good from April 1st 1979. On-stream recorder installed March 16th, 1978

							1979						
Day	Jan .	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Day
1				. 765	. 657	.479	. 615	. 402	. 370	. 369	. 539	. 596	]
2				. 906	.617	.452	.451	.489	.382	.393	.625	.543	2
2 3 4				1.13	. 637	.436	. 404	.467	.410	.419	. 590	. 554	3
				. 872	.727	. 426	.368	.378	.383	.450	.552	.517	- 4
5				. 838	. 640	.423	353	. 346	. 358	. 665	. 524	. 544	!
6				. 921	. 648	. 420	.356	. 346	.352	.652	.515	.616	
7				. 827	. 701	.411	. 340	. 356	. 359	. 661	. 536	. 619	
8				. 792	. 609	. 556	. 334	.410	. 362	. 626	. 523	. 649	
9				. 734	. 560	. 532	. 334	. 358	. 357	.776	. 515	. 546	
10				. 756	. 634	.457	. 364	. 596	. 368	. 740	.667	.553	1
11				. 877	1.16	.615	. 403	. 557	. 460	.625	. 630		1
2				. 846	. 807	.491	.393	.412	.404	.670	.557		1
13				. 792	1.30	.435	. 374	.370	. 371	. 763	.515		1
14				1.19	.929	. 420	. 362	. 360	. 631	. 656	.513		1
15				1.16	. 972	. 387	. 376	. 361	. 830	. 578	.513		1
16				. 893	. 995	.370	.381	. 343	. 527	. 544	.542		1
17				.774	. 703	. 349	. 367	. 338	. 431	. 515	.513		1
18				. 706	. 593	. 341	. 348	.382	.399	. 518	.514		1
19				. 657	. 531	. 341	. 338	. 408	. 381	. 512	. 508		1
20				. 634	.518	. 327	. 333	.371	. 366	.571	.537		2
21				.615	. 500	. 334	. 350	. 352	. 368	.742	. 526		2
22				. 632	.490	.496	.358	.337	.372	. 650	.592		2
23				.618	. 468	.428	. 357	. 341	. 360	. 589	. 803		2
24				. 596	.452	.398	. 348	. 867	. 365	.580	. 953		2
25				. 594	. 476	. 375	. 362	.732	. 369	.571	.815		2
26				. 606	. 683	. 354	. 376	.478	.362	. 555	. 923		2
27				. 992	. 606	. 349	. 378	. 434	. 361	. 549	. 876		2
28				. 847	. 526	. 353	. 372	.408	.356	. 607	. 920		2
29				. 705	. 511	. 344	. 378	. 406	. 358	. 621	. 874		2
30				. 654	. 577	.453	.373	.406	.368	. 540	.690		3
31					.518		. 377	. 385					3

### NANTICOKE CREEK NEAR JARVIS

Station No. 02GC113

Location:

At the bridge on Haldimand-Norfolk Regional Road 69, about 1.6 kilometres west of the Community of Jarvis

Gauge:

On-stream recorder

Drainage Area:

149.7 Square kilometres

Period of Record:

May 1977 to July 1977 July 1979 to December 1979

Remarks:

On-stream recorder installed in 1979

		DAILY	DISCHAR		OBIC ME	IKES PER	JECOND		
				. 1	979				
Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Day
1 2 3 4 5				.073 .110 .095 .082 .072	.474 .419 .380 .320 .246	.212	.585 .619 .705 .769 .759	2.21 1.95 1.81 2.02 1.76	1 2 3 4 5
6 7 8 9				.056 .291 .632 .412	.212 .179 .164 .145 .088	1.09 1.03	.739 .787 .819 .973 2.04	2.33 2.14 2.23 1.97 1.86	6 7 8 9 10
11 12 13 14 15				.273 .207 .163 .140 .145		1.05 1.19 1.29 1.13 1.03	1.83 1.66 1.51 1.40 1.32	1.66	11 12 13 14 15
16 17 18 19 20			.147	.110 .079 .070 .066 .058		.922 .817 .741 .685 .778	1.28 1.20 1.13 1.04 .964		16 17 18 19 20
21 22 23 24 25			.137 .125 .116 .101	.045 .033 .042 .037 .079	.246	1.19 1.40 1.29 1.20 1.11	.900 1.06 2.13 3.20 3.31		21 22 23 24 25
26 27 28 29 30 31			.104 .081 .081 .086 .077	.113 .129 .168 .453 .566	.263	.923 .776 .712 .686 .669	3.91 4.08 3.31 2.66 2.60		26 27 28 29 30 31

# NORTH SAUGEEN RIVER NEAR CHESLEY

Station No. 02FC106

Location:

At the bridge on Concession 2-3, Township of Edlerslie, about 1.6 kilometres west of the Town of Chesley

Gauge:

None

Drainage Area:

225 Square kilometres

Period of Record:

July 1975 to November 1975 May 1978 to December 1979

	1979											
Jan. t	o March	April 1	to June	July to	Sept.	Oct. to Dec						
Date	m³/s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s					
	π			Jul 5	4.24	Oct 18	3.38					
				Jul 19	4.17							
				Sep 11	2.15							
				Sep 18	1.77							
				Sep 27	.787							

# OTTER CREEK AT MILDMAY Station No. 02FC108

Location:

At the Otter Creek Conservation Area in the Village of Mildmay

Gauge:

None

Drainage Area:

38.3 Square kilometres

Period of Record:

1979										
Jan. to March	April to	April to June July to Sept.			Oct. to Dec					
Date m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s				
	May 8	.971	Jul 5	.354						
	May 23	.623	Jul 19	.300						
	May 30	.779	Aug 1	.280						
	Jun 6	.493	Aug 15	.113						
	Jun 14	.515	Aug 22	.255						
	Jun 28	.362	Sep 11	.246						
			Sep 18	.204						
			Sep. 27	.175						

# PORCUPINE RIVER AT PORCUPINE Station No. 04MD101

Location:

At the bridge on Hwy. No. 101, at the outlet of Porcupine Lake in the Community of Porcupine, within the City of Timmins

Gauge:

Staff

Drainage Area:

84.2 Square kilometres

New station:

May to December 1978

				1979			
Jan. t	o March	April to June		July to	Sept.	Oct. to Dec.	
Date m <sup>2</sup>	m <sup>3</sup> /s	Date m <sup>3</sup> /s		Date m <sup>3</sup> /s		Date m <sup>3</sup> /	
		May 7	8.23	Jul 4	1.82	Oct 16	3.06
		May 16	7.44	Jul 11	1.31		
		May 24	2.90				
		Jun 1	1.18				
		Jun 12	2.31				
		Jun 18	4.97				
		Jun 27	2.77				

# PORCUPINE RIVER AT THE SOUTH PORCUPINE HOSPITAL Station No. 04MD102

Location:

At the bridge over the Porcupine River, just east of the South Porcupine Hospital, in the Community of South Porcupine, within the City

of Timmins

Gauge:

None

Drainage Area:

35.7 Square kilometres

Period of Record:

	1979										
Jan. to	March	April t	o June	July to	Sept.	Oct. to Dec.					
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s				
		Jun 12	.181	Ju1 5	.167						
		Jun 20	.702	Jul 12	.184						
		Jun 25	.238	Jul 17	.040						
				Aug 1	.071						
				Aug 9	.289						
				Aug 15	.195						

#### PRINGLE CREEK AT WHITBY

### Station No. 02HD108

Location:

At the old steel bridge below Victoria Street East, in the Town of Whitby  $% \left\{ \left\{ 1\right\} \right\} =\left\{ 1\right\} =\left\{$ 

Gauge:

Staff

Drainage Area:

21.5 Square kilometres

Period of Record:

July 1966 to December 1979

Remarks:

Records good

1979											
Jan. 1	to March	April t	o June	July to Sept.		Oct. to Dec.					
Date	m <sup>3</sup> /s	Date	m³/s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s				
		May 2	.399	Jul 25	.133						
		Jun 12	.207	Aug 16	.153						
				Sep 26	.167						

### REYNOLDS CREEK NEAR PUTNAM

#### Station No. 02GD109

Location:

In the Reynolds Creek Conservation Area near

Putnam, about 300 metres upstream from Hwy. 401

Gauge:

On-stream recorder

Drainage Area:

151 Square kilometres

Period of Record:

June 1979 to December 1979

Remarks:

Temporary on-stream recorder and weir

				19	1979				
Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Day
1 2 3 4 5			. 949	.187 .201 .221					1 2 3 4 5
6 7 8 9				.184 .167					6 7 8 9 10
11 12 13 14 15			.405						11 12 13 14 15
16 17 18 19 20				.142 .159 .133 .130					16 17 18 19 20
21 22 23 24 25			.192 .187 .178	.130 .133 .136					21 22 23 24 25
26 27 28 29 30 31			.167 .175	.079 .167					26 27 28 29 30 31

### ROCKY SAUGEEN RIVER BELOW MARKDALE

#### Station No. 02FC100

Location:

At the culvert on Side Road 100, Township of Glenelg, about 0.5 kilometres southwest of the Village of Markdale

Gauge:

Staff

Drainage Area:

92.2 Square kilometres

Period of Record:

July 1967 to December 1979

Remarks:

Records good

	1979											
Jan. t	o March	April to June		July to	Sept.	Oct. to Dec.						
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s					
				Jul 5	1.43	Oct 18	1.00					
				Jul 20	1.12							
				Aug 14	1.29							
				Aug 20	.974							
				Sep 6	1.02							
				Sep 17	1.28							
				Sep 26	.801							

# SALEM CREEK NEAR COLBORNE Station No. 02HD101

Location:

About 60 metres upstream from the bridge on

Blyth Road, approximately 2.4 kilometres southeast of the Village of Colborne

Gauge:

Staff

Drainage Area:

9.1 Square kilometres

Period of Record:

November 1965 to December 1979

Remarks:

Records good

1979									
Jan.	to March	April t	o June	July to	Sept.	Oct. t	o Dec.		
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s		
		May 9	.210	Jul 25	.235				
		Jun 12	.156	Aug 16	.125				
				Sep 24	.127				

### SAUBLE RIVER NEAR ALLENFORD Station No. 02FA100

Location:

At the side of Hwy. 21, about 0.5 kilometres west of the Police Village of Allenford

Gauge:

Measuring Point

Drainage Area:

293 Square kilometres

Period of Record:

May 1968 to December 1979

Remarks:

Data prior to 1975 appear in the Summer Gauging Site Data section of previous bulletins in this

series

1979									
Jan. t	o March	April	to June	July to	Sept.	Oct. t	o Dec.		
Date	m <sup>3</sup> /s	Date	m³/s	Date	m³/s	Date	m <sup>3</sup> /s		
		Jun 7	1.03	Jul 9	.368				
		Jun 28	.504	Aug 15	.521				
				Aug 21	.473				

# SAUBLE RIVER AT TARA Station No. 02FA101

Location:

At the bridge on the Main Street in the Village of Tara

Gauge:

None

Drainage Area:

210 Square kilometres

Period of Record:

1979									
Jan. t	o March	April t	o June	July to	Sept.	Oct. to	Dec.		
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m³/s		
		Jun 14	.699	Jul 5	.379	Oct 18	2.43		
		Jun 28	.351	Jul 19	.255				
				Aug 15	. 399				
				Sep 26	.478				

# SHARPES CREEK NEAR BENMILLER Station No. 02FE104

Location:

At the bridge on Concession 5-6, Township of Colborne, about 3.2 kilometres north of the Community of Benmiller

Gauge:

None

Drainage Area:

51.5 Square kilometres

Period of Record:

				1979					
Jan. to March April to June July to Sept. Oct. to									
Date	m³/s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s		
		May 9	.634	Ju1 4	.235				
		May 31	.388	Jul 18	.181				
		Jun 13	.221	Aug 22	.088				
				Sep 19	.085				
				Sep 28	.076				

# SOUTH PINE RIVER NEAR RIPLEY Station No. 02FD106

Location:

At the bridge on Concession 5-6, Township of Huron, about 1.6 kilometres southwest of the Village of Ripley

Gauge:

None

Drainage Area:

30.6 Square kilometres

Period of Record:

				1979			
Jan. to M	arch	April	to June	July to	Sept.	Oct. to	Dec.
Date m	3/s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s
		May 8	.368	Aug 16	.014	Oct 19	.102
		May 23	.051	Aug 23	.017		
		May 30	.062	Sep 11	.014		
		Jun 6	.006	Sep 27	.014		

# SPEY RIVER NEAR CHATSWORTH

Station No. 02FB104

Location:

At the culvert on Hwys. 6 and 10, about 1.1 kilometres north of the Village of Chatsworth

Gauge:

None

Drainage Area:

39.6 Square kilometres

Period of Record:

May 1975 to December 1979

	1979											
Jan. to March April to June July to Sept. Oct.												
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s					
		May 22	.541	Jul 19	.076	Oct 18	.396					
		Jun 15	.323	Aug 14	.263							
		Jun 18	.187	Aug 21	.175							
				Sep 17	.447							
				Sep 26	.201							

# TEESWATER RIVER AT TEESWATER Station No. 02FC104

Location:

At the bridge on Hwy. 4 in the Village of Teeswater

Gauge:

None

Drainage Area:

130 Square kilometres

Period of Record:

				1979			
Jan. t	o March	April t	o June	July to	Sept.	Oct. to	Dec.
Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s	Date	m <sup>3</sup> /s
		May 8	2.70	Jul 5	.776		
		May 23	1.29	Jul 19	.518		
		May 30	1.42	Aug 1	.470		
		Jun 7	. 804	Aug 15	.518		
		Jun 14	.796	Aug 22	.405		
		Jun 28	. 515	Sep 12	.396		
				Sep 18	.343		
				Sep 27	.328		

#### URFE CREEK NORTH OF PICKERING

#### Station No. 02HC116

Location:

At the first bridge east of Brock Road on Durham Regional Road No. 4, about 4.0 kilometres north of the Town of Pickering

Gauge:

On-stream recorder

Drainage Area:

10.6 Square kilometres

Period of Record:

January 1967 to December 1979

Remarks:

Records good

	1979												
Day	Jan .	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept .	Oct.	Nov.	Dec.	Day
1 2 3 4 5				.215 .836 507 .193 .448	.112 .095 .248 .245 .130	.035 .032 .029 .026	.079 .031 .020 .015	.022 .057 .027 .017	.012 .015 .016 .013	.012 .012 .012 .022 .043	.029 .035 .030 .028	.041 .039 .035 .038 .051	1 2 3 4 5
6 7 8 9			. 627 . 686 . 777 . 814	.624 .260 .204 .161 .235	.135 .135 .100 .085 .074	.021 .019 .031 .050 .034	.012 .012 .012 .012 .012	.012 .014 .016 .012	.012 .011 .012 .011	.037 .036 .023 .078 .035	.026 .036 .032 .036 .121	.063 .064 .073 .040	6 7 8 9 10
11 12 13 14 15				.263 .190 .226 1.22 .417	.067 .095 .177 .101 .132	.080 .033 .022 .018 .017	.016 .014 .013 .012 .013	.015 .012 .010 .011 .010	.015 .013 .012 .079 .038	.033 .068 .062 .035 .029	.054 .038 .034 .031 .034	.041 .066 .048 .034	11 12 13 14 15
16 17 18 19 20			. 334	.219 .163 .128 .111 .102	.145 .089 .068 .061 .058	.016 .014 .013 .011	.014 .011 .011 .010 .011	.010 .010 .016 .015	.018 .014 .013 .011 .010	. 024 . 025 . 032 . 032 . 054	.039 .034 .032 .030 .033	.033 .032 .033 .033	16 17 18 19 20
21 22 23 24 25			. 249 . 223 . 214 . 490 . 761	.096 .098 .088 .081	.057 .047 .042 .040 .061	.012 .027 .018 .016 .013	.011 .011 .012 .014 .016	.010 .009 .011 .013	.011 .011 .009 .010	.142 .051 .039 .037 .034	.030 .108 .167 .133 .088	.033 .032 .230 .544 1.43	21 22 23 24 25
26 27 28 29 30 31			.207 .116 .098 .115 .349 .388	.127 .527 .187 .141 .120	.127 .079 .065 .056 .049	.011 .012 .016 .015	. 018 . 016 . 065 . 043 . 018 . 020	.012 .021 .017 .018 .016	.009 .009 .011 .011	.030 .028 .039 .036 .032	.228 .118 .108 .086 .057	.485 .179 .129 .119 .118	26 27 28 29 30 31

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